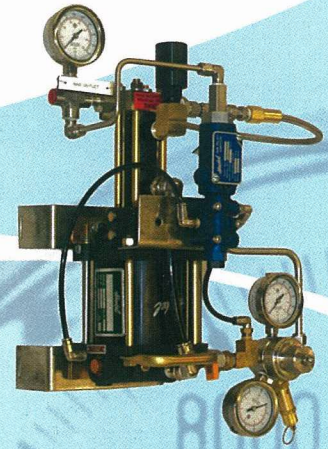




# 87114 MINI GAS CHARGING SYSTEM



- \* Mounting bracket included.  
(except for oxygen use)
- \* Bottle and cart not included.

## > MARKETS INCLUDE

- Aircraft Ground Support  
(Military and Commercial)
- Industrial Gas Charging Applications

## > SPECIFICATIONS

Dimensions: .....	H19.69, W15.17, D16.57
Weight: .....	24 LBS.
Gas inlet port: .....	1/4" FNPT
Gas outlet port: .....	1/4" FNPT
Air Drive Port: .....	1/2" FNPT
Maximum Output Gas Pressure: .....	3750 PSIG
Maximum Rated Pressure Inlet: .....	3500 PSIG
Maximum Rated Pressure Outlet: .....	4000 PSIG
Actual Volume per Cycle: .....	1.23 CU. IN. per cycle
Adjustable Automatic Shut-Off Factory Set ..	3000 PSIG

The Mini Gas Charging System is designed and manufactured to achieve an affordable and effective gas transfer and charging unit.

## > APPLICATIONS

The system may be used but is not limited to the following applications:  
N2 Shock Absorber Charging, Accumulator Charging, Gas Transfer, Gauge Calibration, Pressure Testing and Purging.

## > FEATURES & BENEFITS

- System can be used with any inert industrial gas.
- Provides performance, reliability and portability at an affordable price.
- Includes relief valve for integrated air drive protection
- Includes adjustable automatic pneumatic shut-off switch
- Provides alternate drive sources & drive Media Options
- Media can be the same as the gas being boosted (except oxygen)
- Media can be supplied from an external source (okay with oxygen)
- Features drive air and process gas separation
- Design incorporates Integrated cooling jacket to minimize heat from compression and extend seal life.
- Plugged 1/4" NPT Relief Valve port; recommend using RV protection.



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# > 87114 MINI GAS CHARGING SYSTEM

## > PERFORMANCE

Supply Vessel Volume: 2640 cu in  
 Fill Vessel Volume: 218 cu in  
 Booster Drive Pressure: 140 psig

Fill Vessel Starting Pressure: 0 psig

Supply Pressure	Equalized Pressure	Fill Pressure	Time
psig	psig	psig	mm:ss
1500	1400	2000	1:06
1200	1100	2000	2:03
900	800	1750	5:40

Fill Vessel Starting Pressure: 800 psig

Supply Pressure	Equalized Pressure	Fill Pressure	Time
psig	psig	psig	mm:ss
1500	1450	2000	:53
1250	1200	2000	1:41
1000	1000	2000	3:25
600	800	1300	4:20

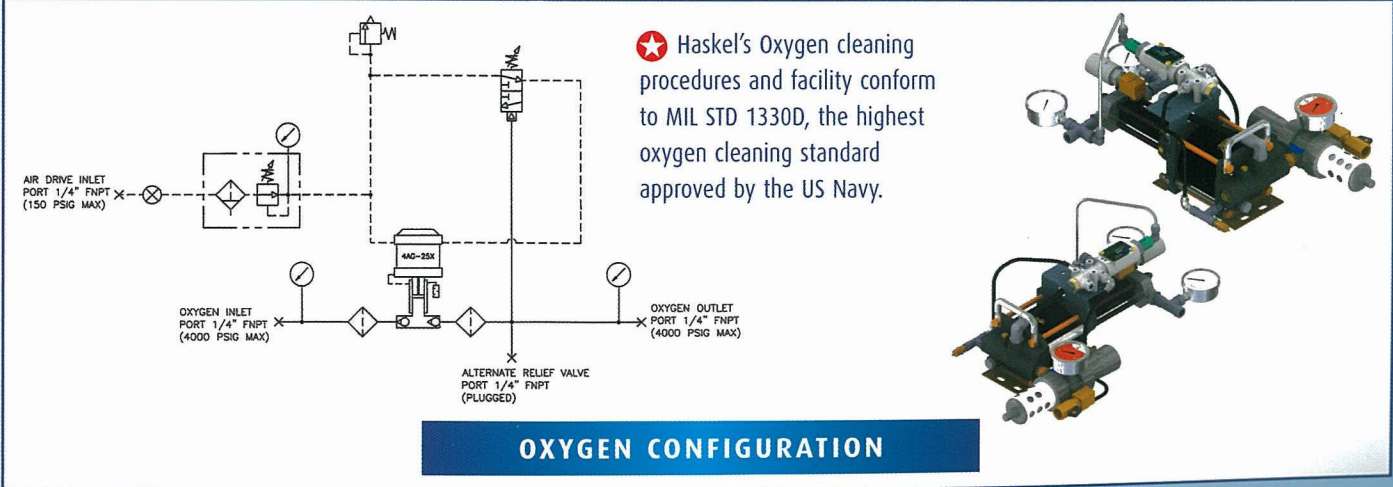
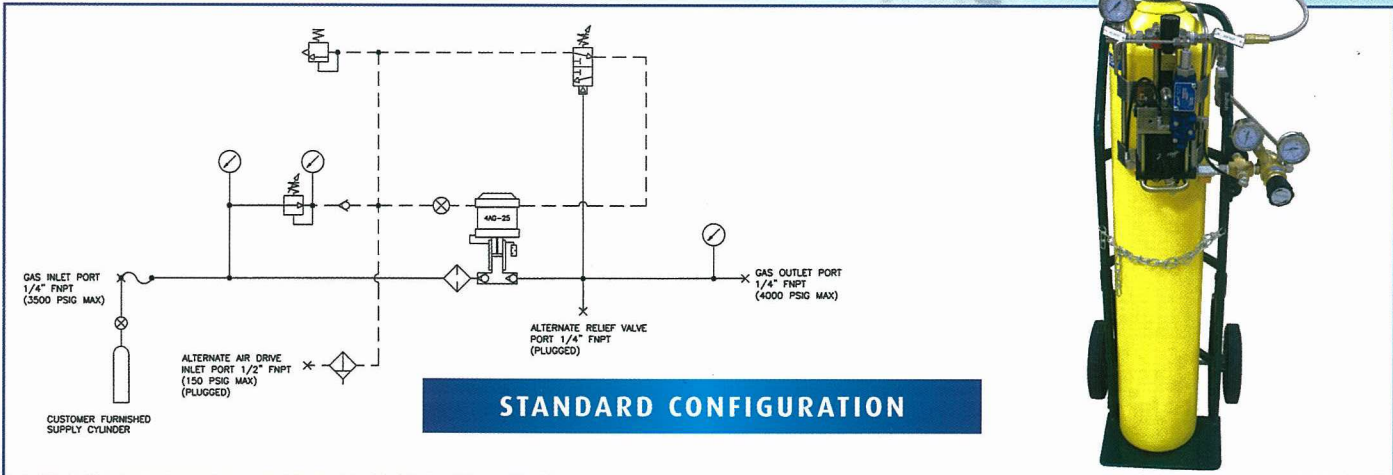
Supply Vessel Volume: 2640 cu in  
 Fill Vessel Volume: 22 cu in  
 Fill Vessel Starting Pressure: 0 psig

Booster Drive Pressure: 140 psig

Supply Pressure	Equalized Pressure	Fill Pressure	Time
psig	psig	psig	mm:ss
2400	2400	3000	:08
2200	2200	3000	:09
2000	2000	3000	:12
1800	1800	3000	:16
1600	1600	3000	:20
1400	1400	3000	:24
1200	1200	3000	:40
1000	1000	2200	:41

Booster Drive Pressure: 125 psig

Supply Pressure	Equalized Pressure	Fill Pressure	Time
psig	psig	psig	mm:ss
2000	2000	3000	:37
1800	1800	3000	:42
1600	1600	3000	:48
1400	1400	3000	:50
1200	1200	2950	1:10



★ Haskel's Oxygen cleaning procedures and facility conform to MIL STD 1330D, the highest oxygen cleaning standard approved by the US Navy.

